

CLAIMS

1. A method of monitoring by a computer comprising a processor and a memory, the method comprising:

monitoring, by the processor, at least one of a plurality of nodes of at least one of a plurality of digital distributed ledger systems for completed transactions on the at least one of the plurality of digital distributed ledger systems;

receiving, by the processor, a filtering graph from a user equipment (UE), the filtering graph for identifying completed transactions on the at least one of a plurality of digital distributed ledger systems;

detecting, by the processor, a plurality of completed transactions on the monitored at least one of a plurality of digital distributed ledger systems at the at least one of a plurality of nodes;

determining, by the processor, that at least one of the plurality of completed transactions on the monitored at least one of a plurality of digital distributed ledger systems through a logic flow analysis of the filtering graph to determine that at least one of the completed transactions at the at least one of a plurality of nodes has a correspondence with the filtering graph; and

storing, by the processor, the at least one of the plurality of transactions.

2. The method according to claim 1, wherein one or more of the at least one of a plurality of digital distributed ledger systems comprises a blockchain maintained by the plurality of nodes.

3. The method according to claim 1, wherein the monitoring comprises monitoring multiple nodes of the plurality of nodes.

4. The method according to claim 1, the method further comprising determining that the at least one of a plurality of digital distributed ledger systems has reached consensus regarding the at least one of the completed transactions prior to the storing.

5. The method according to claim 1, the method further comprising determining that the at least one of a plurality of digital distributed ledger systems has not yet reached consensus regarding completed transactions prior to the storing.
6. The method according to claim 1, wherein the filtering graph is not a predetermined filtering expression.
7. The method according to claim 1, the method further comprising transmitting, by the processor, a first data to at least one of a plurality of UEs, the first data comprising at least one alert to notify a user of the UE of the completed transactions, wherein the alert is at least one of an application programming interface call, a chat room message, an application notification, an external system update, an application programming interface link, an email, a text message, a phone call, and an instant message.
8. The method according to claim 1, wherein the filtering graph is operable to identify transactions based on at least one of users involved in transactions, sender of payment, receiver of payment, currency payor, location of nodes used in the transaction, a location of transaction within the at least one of a plurality of digital distributed ledger systems, and a field represented in a blockchain transaction.
9. The method according to claim 1, the method further comprising retrieving, by the processor, a plurality of historical transactions on the at least one of a plurality of digital distributed ledger systems; determining, by the processor, that at least one of the plurality of historical transactions has a correspondence with the filtering graph; and in response to receiving a request to transmit, transmitting, by the processor, a second data to at least one of a plurality of UEs, the second data comprising second alert to notify a user of the UE of the at least one of the plurality of historical transactions.

10. The method according to claim 7, wherein the first data comprises at least one of a filter identifier, a list of transactions, and a link to transactions.

11. An apparatus comprising at least one processor and at least one memory storing computer program instructions executable by the at least one processor, wherein the computer program instructions are configured to cause the at least one processor to at least:

monitoring, by a processor, at least one of a plurality of nodes of a at least one of a plurality of digital distributed ledger systems for completed transactions recorded on the at least one of the plurality of distributed ledger systems;

receive a filtering expression from a user equipment (UE), the filtering expression for filtering detected completed transactions on the at least one of a plurality of digital distributed ledger systems;

detect a plurality of completed transactions recorded on the monitored at least one of a plurality of digital distributed ledger systems at the at least one of a plurality of nodes;

determine that at least one of the plurality of completed transactions on the monitored at least one of a plurality of digital distributed ledger systems at the at least one of a plurality of nodes has a correspondence with the filtering expression; and

transmit a first data to the UE, the first data comprising at least one alert to notify a user of the UE of the at least one of the plurality of completed transactions.

12. The apparatus according to claim 11, wherein the at least one of a plurality of digital distributed ledger systems comprises a blockchain maintained by the plurality of nodes.

13. The apparatus according to claim 11, wherein the monitoring comprises monitoring multiple nodes of the plurality of nodes.

14. The apparatus according to claim 11, the apparatus being further caused to determine that the at least one of a plurality of digital distributed ledger systems has reached consensus regarding the at least one of the plurality of completed transactions prior to the transmitting.
15. The apparatus according to claim 11, wherein the filtering expression is one of a list of predetermined filtering expressions.
16. The apparatus according to claim 11, wherein the filtering expression is not a predetermined filtering expression.
17. The apparatus according to claim 11, wherein the alert is at least one of an application programming interface call, an application programming interface link, an email, a text message, a phone call, and an instant message.
18. The apparatus according to claim 11, the apparatus is further caused to retrieve a plurality of historical transactions on the at least one of a plurality of digital distributed ledger systems; determine that at least one of the plurality of historical transactions has a correspondence with the filtering expression; and in response to receiving a request to transmit, transmit a second data to at least one of a plurality of UEs, the second data comprising second alert to notify a user of the UE of the at least one of the plurality of historical transactions.
19. A non-transitory computer-readable medium tangibly storing computer program instructions which when executed by a processor, causes the processor to at least:
- monitor at least one of a plurality of nodes of a at least one of a plurality of digital distributed ledger systems for transactions occurring on the at least one of the plurality of distributed ledger systems;

receive a filtering expression from a user equipment (UE), the filtering expression comprising search parameters for identifying transactions on the at least one of a plurality of digital distributed ledger systems;

detect a plurality of transactions on the monitored at least one of a plurality of digital distributed ledger systems at the at least one of a plurality of nodes;

determine that at least one of the plurality of transactions on the monitored at least one of a plurality of digital distributed ledger systems at the at least one of a plurality of nodes has a correspondence with the filtering expression; and

transmit a first data to the UE, the first data comprising at least one alert to notify a user of the UE of the at least one of the plurality of transactions.

20. The non-transitory computer-readable medium according to claim 19, wherein the monitoring comprises monitoring multiple nodes of the plurality of nodes.

21. The non-transitory computer-readable medium according to claim 19, wherein the filtering expression is one of a list of predetermined filtering expressions.

22. The non-transitory computer-readable medium according to claim 19, wherein the filtering expression is not a predetermined filtering expression.

23. The non-transitory computer-readable medium according to claim 19, wherein the alert is at least one of an application programming interface call, an application programming interface link, an email, a text message, a phone call, and an instant message.

24. The non-transitory computer-readable medium according to claim 19, the process is further caused to determine that the at least one of a plurality of digital distributed ledger systems has reached consensus regarding the at least one of the plurality of transactions prior to the transmitting.

25. The non-transitory computer-readable medium according to claim 19, the processor is further caused to retrieve a plurality of historical transactions on the at least one of a plurality of digital distributed ledger systems; determine that at least one of the plurality of historical transactions has a correspondence with the filtering expression; and in response to receiving a request to transmit, transmit a second data to at least one of a plurality of UEs, the second data comprising second alert to notify a user of the UE of the at least one of the plurality of historical transactions.